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DAFTAR PUSTAKA

Appoh, F. & Yunusa-Kaltungo, A., 2021. Composite Hybrid Framework for Through-Life Multi objective Failure Analysis and Optimisation. *IEEE Access,* Volume 9, pp. 71505-71520.

Badan Pusat Statistik, 2025. *Jumlah Penumpang Kereta Api.* [Online] Available at: https://www.bps.go.id/id/statistics-table/2/NzIjMg==/jumlah-penumpang-kereta-api.html
[Accessed 30 09 2025].

BCBS, 2021. *Revisions to the principles for the sound management of operational risk,* Basel: Basel Committee on Banking Supervision.

Brinkmann, S. & Kvale, S., 2019. *Doing interviews.* 2nd ed. London: SAGE Publications Ltd.

Button, K., 2010. *Transport Economics.* 3rd ed. Cheltenham, UK; Northampton, MA, USA: Edward Elgar.

Cadena, J. E., Osorio, A. F., Torero, J. L., Reniers, G., & Lange, D., 2020. Uncertainty-based decision-making in fire safety: Analyzing the alternatives. *Journal of Loss Prevention in the Process Industries ,* Volume 68, p. 104288.

Catelani, M., Ciani, L., Galar, D., Guidi, G., Matucci, S., & Patrizi, G., 2021. FMECA assessment for railway safety-critical systems investigating a new risk threshold method. *IEEE Transactions on Instrumentation and Measurement,* Volume 9, pp. 86243-86253.

Ciani, L., Guidi, G. & Patrizi, G., 2022. Human reliability in railway engineering: Literature review and bibliometric analysis of the last two decades. *Safety Science,* Volume 151.

Čička, M., Turisová, R. & Čičková, D., 2022. Risk Assessment Using the PFDA-FMEA Integrated Method. *Quality Innovation Prosperity,* pp. 112-134.

COSO, 2017. *Enterprise Risk Management Integrating with Strategy and Performance.* Durham: Committee of Sponsoring Organizations of the Treadway Commission.

Creswell, J. W., 2016. *30 essential skills for the qualitative researcher.* Thousand Oaks, CA: SAGE Publications.

ERA, 2022. *Report on Railway Safety and Interoperability in the EU,* Luxembourg: European Union Agency for Railways.

IEC, 2018. *IEC 60812:2018-Failure modes and effects analysis (FMEA and FMECA),* Geneva: International Electrotechnical Commission.

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ISO, 2018. *Risk management – Guidelines (ISO Standard No. 31000:2018).* Geneva: International Organization for Standardization.

Jabłoński, A. & Jabłoński, M., 2022. *Digital Safety in Railway Transport-Aspects of Management and Technology.* New Jersey: Springer.

Kołodziejczak, K., Kowalski, P. & Frąckowiak, E., 2025. Battery Electric Multiple Units (BEMU) as an alternative to railway line electrification. *Rail Vehicles / Pojazdy Szynowe,* Volume 1, pp. 39-47.

Kumari, J., Karim, R. & Khanna, P., 2025. Dynamic maintenance policy development for railway rolling stock. *Journal of Quality in Maintenance Engineering,* 31(5), pp. 23-42.

Malik, M. F., Zaman, M. & Buckby, S., 2020. Enterprise risk management and firm performance: Role of the risk committee. *Journal of Contemporary Accounting and Economics,* Volume 16, p. 100178.

Masłowski, D., Dendera-Gruszka, M., Giera, J., Kulińska, E., Olejnik, K., & Szumidłowska, J., 2024. Risks and Challenges of Oversized Transport in the Energy Industry. *Energies,* 17(6444).

Nasrallah, I., Sabbah, I., Haddad, C., Ismaili, L., Kotaich, J., Salameh, P., Kak, A. E., Nasr, R., & Bawab, W., 2023. Evaluating the academic scientific laboratories' safety by applying failure mode and effect analysis (FMEA) at the public university in Lebanon. *Heliyon,* 9(12), p. 21145.

Nowicki, M. & Gill, A., 2023. Concept of hazard identification for RAMS specification. *Rail Vehicles,* 3(4), pp. 54-63.

Pena, A., Patiño, A., Chiclana, F., Caraffini, F., Gongora, M., Ruiz, J. D., & Grisales, E. D., 2021. Fuzzy convolutional deep-learning model to estimate the operational risk capital using multi-source risk events. *Applied Soft Computing,* Volume 107, p. 107381.

Pinto, J. K., 2020. *Project Management: Achieving Competitive Advantage.* 5th ed. London: Pearson Education.

PT KAI, 2025. *Asset Information System Rollingstock KAI,* Bandung: PT Kereta Api Indonesia.

PT KAI, 2025. *Minutes of Meeting BOD 28 Oktober 2025,* Bandung: PT Kereta Api Indonesia.

PT KAI, 2025. *Rencana Jangka Panjang Perusahaan 2025-2029,* Bandung: PT Kereta Api Indonesia.

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Rivaldi, R. S., 2024. Enhancing The National Logistics System: PT Kereta Api Indonesia's Role in East Java Province. *Asian Journal of Logistics Management,* 3(1), pp. 37-43.

Rodrigue, J. P., 2020. *The Geography of Transport Systems.* 5th ed. New York: Routledge.

Schindler, P. S., 2025. *Business Research Methods.* 15th ed. New York: McGraw-Hill.

Sheikhi, D., Ghorbani, B. & Ahmadi, Z., 2024. Enhancing safety and reliability in railway signalling systems: A comprehensive FMEA-based approach. *Journal of Engineering and Technology,* 15(1), pp. 185-204.

Slack, N., Brandon- Jones, A. & Burgess, N., 2022. *Operations Management.* 10th ed. Harlow: Pearson Education.

Stoilova, S., 2018. Study of Railway Passenger Transport in the European Union. *Tehnički vjesnik,* 25(2), p. 587–595.

Streuling, C., Pagenkopf, J., Schenker, M. & Lakeit, K., 2021. Techno-Economic Assessment of Battery Electric Trains and Recharging Infrastructure Alternatives Integrating Adjacent Renewable Energy Sources. *Sustainability,* Volume 13, p. 8234.

Szkoda, M. & Satora, M., 2019. The application of failure mode and effects analysis (FMEA) for the risk assessment of changes in the maintenance system of railway vehicles. *Czas. Tech,* Volume 8, pp. 159-172.

Tartaglia, R., Parretti, C., Candido, G., La Regina, M., Scaldferri, F., Rumi, G., Napolitano, D., Vetrugno, G., & Barach, P., 2026. Implementing a televisiting program in a tertiary university hospital:Failure modes and effect analysis (FMEA) and solutions for improving patient safety and sustainable care. *patient safety and sustainable care,* Volume 196, p. 107096.

Wang, L., Acheampong, R. A. & He, S., 2020. High-speed rail network development effects on the growth and spatial dynamics of knowledge-intensive economy in major cities of China. *Cities,* Volume 105.

Wiangkham, A. & Vongvit, R., 2026. Integrating Machine Learning with FMEA for failure prioritization and process risk analysis in manufacturing. *Results in Engineering,* Volume 29, p. 109128.

Yousaf, M. U., Aized, T., Shabbir, A., Ahmad, M., & Nabi, H. Z., 2023. Automobile rear axle housing design and production process improvement using Failure Mode and Effects Analysis (FMEA). *Engineering Failure Analysis* , Volume 154, p. 107649.